Provisional

85-inch PDP Installation Manual





Updated on July 24, 2009



Ratings

(The ratings and appearance are subject to change without notice.)

	*1000000**		
		TH-85PF12U/K/W	
Dimensions (W x H x D)		W 2,015 x H 1,195 x D 99 mm	
Р	ackage size	W 2,194 x H 1,480 x D 549 mm	
S	creen size	1899/1062/2167 mm	
٧	/eight	PDP: 125 kg / With the package: Approx. 160 kg (*1)	
Р	ower consumption	1,250W	
D	isplay panel	•	
	Number of pixels (H x V)	1,920 x 1,080 pixels [1 pixel = 3 cells (RGB)]	
	Contrast	40000:1	
	Dynamic contrast	2,000,000:1	
	Gray scale levels	6,144 shades of gray (equivalent)	
	Altitude	0 to 2,800 m	
	Slot power supply	40 W	
	AR coating	Applied (AGLR finish)	
Р	ower supply	Compliant with the requirements of the destination country	
Α	udio output	Audio line-out	
Ir	nstallation in portrait orientation	Possible (without additional fans, with the power button side up.)	
Е	nvironmental requirements	Temperature: 0°C to 40°C (Multi-system: 0°C to 35°C)	
		Humidity: 20% to 80%	
		Altitude: 0 to 2,800 m	

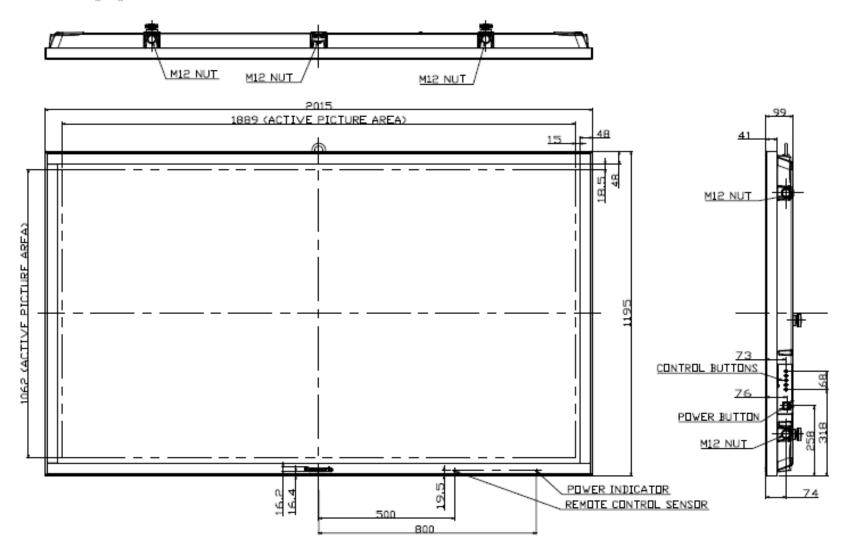
^{*1:} When a plastic pallet is used (The specifications have yet to be determined.)

Key points for installing the PDP

- Install the PDP in accordance with applicable laws and regulations of the destination country/region.
- The installation work must be carried out only by professionals.
- The power supply for this PDP must meet the requirements of the destination country. The rated power consumption is TBD.
 - It is recommended that the PDP use a dedicated power line.
- Provide adequate ventilation in the installation location so that the ambient temperature will not exceed 40°C.
 - Make a clearance of 100 mm or more above and on both sides of the PDP and a clearance of 150 mm or more behind the PDP.
- The length of the power cord supplied with the PDP is 3 m.
- Position of the center of gravity (Reference)
 - Horizontal and vertical center of gravity: The center of the set
 - Depth from the front to the center of gravity of the set
 - PDP alone: 33 mm
 - With the wall mount bracket: 51 mm
- Eye bolt type
 - The size of the eye bolts on the PDP (two on the left and right sides and three on the top) is M12-20 mm.

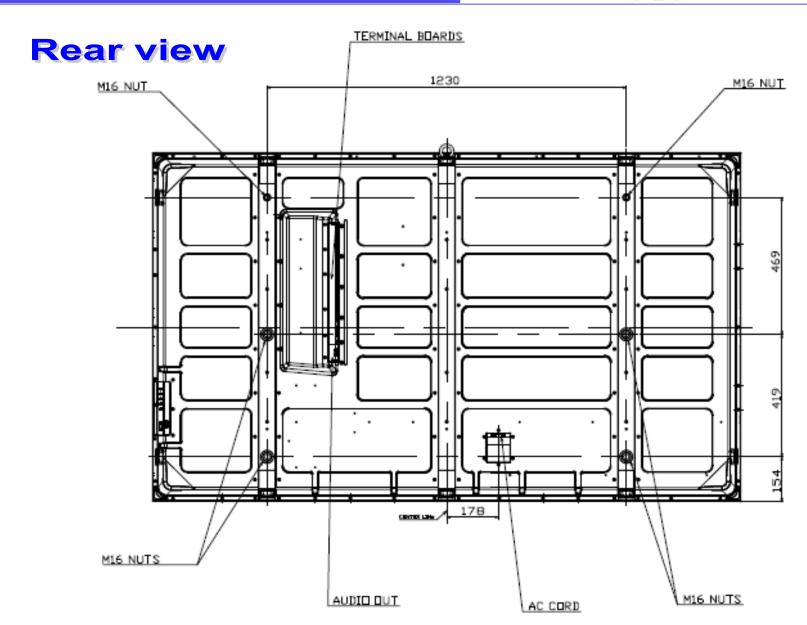
PDP

PDP appearance



(Subject to change without notice due to improvements of the product specifications and/or design.)





(Subject to change without notice due to improvements of the product specifications and/or design.)

Key points for using the stationary or floor stand

Stationary stand

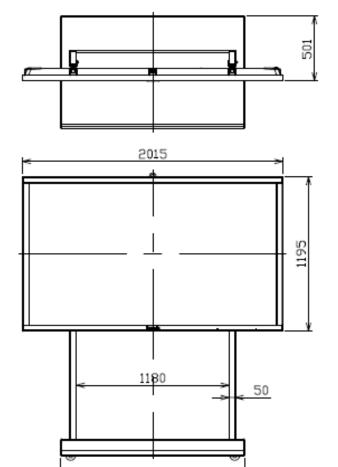
- The height of the PDP bottom side is 62.5 mm from the stationary stand. The PDP can be set 50 mm higher to avoid interference between the PDP and the stand due to the attachment of a touch panel or for other reasons. At the higher position, the height of the PDP bottom side is 112.5 mm.
- To prevent the stand from tipping over, fix the stand to the table by four points using the supplied bands. In addition, fix the PDP to the wall by two points using strong wires.
- The stationary stand weighs 55 kg, and the total weight including the PDP is about 180 kg. Do not install the stand with the PDP in a location that cannot withstand the load.
- To prevent the PDP from coming off the mounting bracket, fix the PDP with M8 bolts.

Floor stand

- With the floor stand, the PDP height is adjustable to three different levels.
- The height of the PDP bottom side is 1,000 mm/900 mm/800 mm from the floor stand.
- To prevent the stand from tipping over, fix the PDP by four points using adjusters. In addition, fix the PDP to the wall by two points using strong wires.
- To prevent the PDP from coming off the mounting bracket, fix the PDP with M8 bolts.

Floor stand

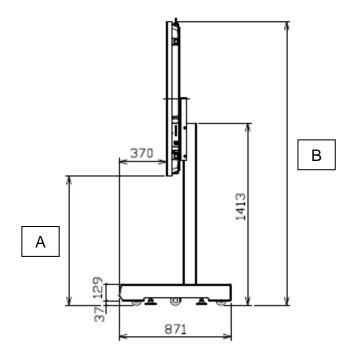
Installation with the floor stand



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- Stand specifications (Model No.: TY-ST85PF12)
 - Dimensions: W 1,425 x H 1,413 to 1,606 x D 871 mm
 - Weight: 75.0 kg
 - Height adjustable to three levels

А	В
800	1,995
900	2,095
1,000	2,195

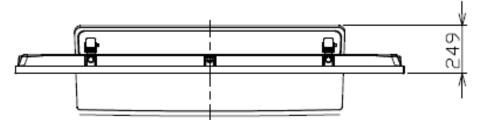


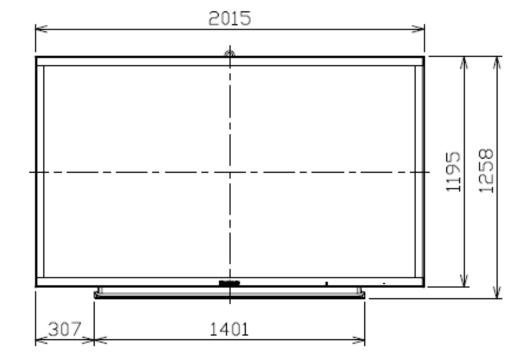
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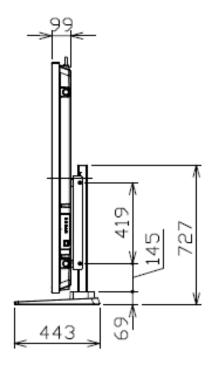
Stationary stand

Installation with the stationary stand

- Stand specifications (Model No.: TY-ST85P12)
 - Dimensions: W 1,401 x H 727 x D 443 mm
 - Weight: 55.0 kg





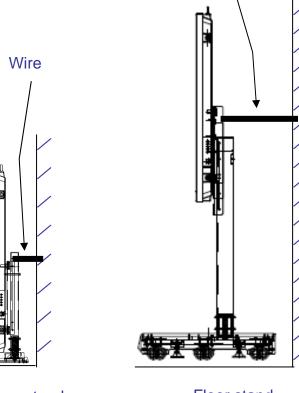


(Subject to change without notice due to improvements of the product specifications and/or design.)

Tipping-prevention wire

- Fixing the PDP to a wall or post with wires
- Fix the eye bolts on the rear of the PDP to a firm wall or post with strong wires.
- <Reference values>
- * Each wire should be have a 4 mm or larger diameter and withstand 0.8 tons or higher load.
- * Each wire should be anchored to the wall with M10 x 45 mm or larger anchor bolts. Two wires should be anchored.
- The installation work must meet applicable laws and regulations of the destination country/region.

Fixing with wire



Stationary stand

Floor stand

Wire

Wall mount bracket

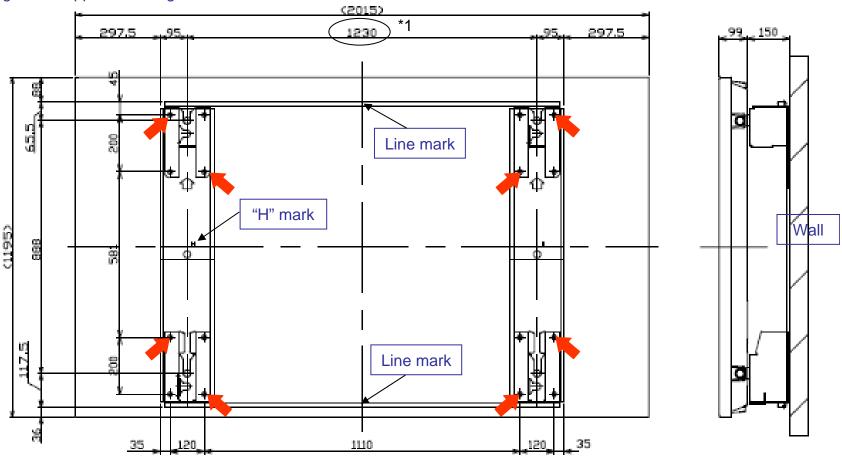
Wall mounting (landscape)

- When installing the PDP on a wall, change the stand hook at the center to the upper stand hook position.
- Stand specifications (Model No.: TY-WK85PV12)
 - Dimensions: W 1,420 x H 1,071 x D 150 mm
 - Weight: Approx. 25.0 kg

- Wall mounting
 - The installation work must be carried out only by professionals.
 - The marks denote the center of the PDP.
- Wall mounting dimensional tolerances
 - Base bracket pitch (the part marked with *1):

 $1,230 \pm 0.6 \text{ mm}$

- Surface level difference tolerance: 1.3 mm
 - Pitch tolerance: Left-right: ±1.0 Top-bottom: ±1.0 (mm)



Wall mounting (portrait)

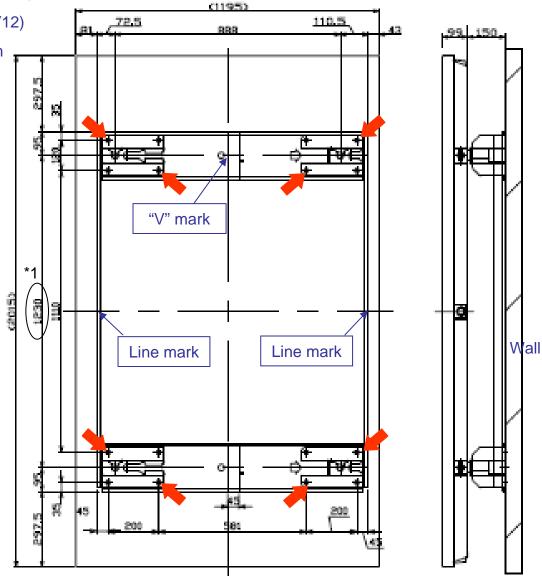
Stand specifications (Model No.: TY-WK85PV12)

■ Dimensions: W 1,420 x H 1,071 x D 150 mm

■ Weight: Approx. 25.0 kg

- When installing the PDP on a wall, change the stand hook at the center to the upper stand hook position.
- Wall mounting
 - The installation work must be carried out only by professionals.
 - The marks denote the center of the PDP.
- Wall mounting dimensional tolerances
 - Base bracket pitch (the part marked with *1): 1,230 ± 0.6 mm
- Surface level difference tolerance: 1.3 mm
 - Pitch tolerance: Left-right: ±1.0 Topbottom: ±1.0 (mm)
- Notes on installation in portrait orientation Model: TH-85PF12
 - Install the PDP with the power button side down.
 - Set the display orientation to portrait (during the initial setup).
 The fan control for portrait installation

The fan control for portrait installation will be enabled.



Fixing the PDP

 Be sure to put the brackets' stoppers in place to prevent the PDP from coming off the brackets for safety reasons.

[Landscape installation]

Stopper position before

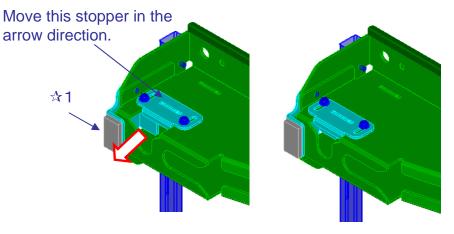
hanging the PDP

- (1) After hanging the PDP on the wall mount brackets, remove the stopper screws, turn the stopper 180 degrees, and fasten it with the screws.
- Note) The brackets are designed to prevent the PDP from coming off, serve as an EMI protector, and facilitate PDP installation.
 - Stopper position after hanging the PDP
 - **☆1**

Turn the stopper 180 degrees.

[Landscape installation]

- (1) After hanging the PDP on the wall mount brackets, loosen the stopper screws, move the stopper forward, and fasten it with the screws.
- (2) The part marked with ☆1 serves as an EMI protector.
 - Stopper position before hanging the PDP
- Stopper position after hanging the PDP

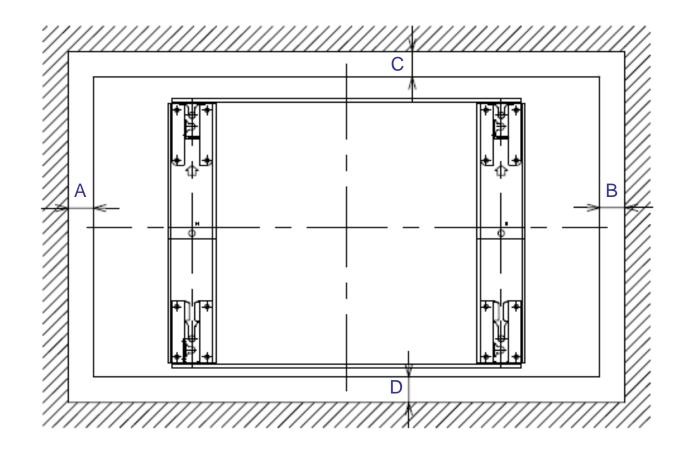


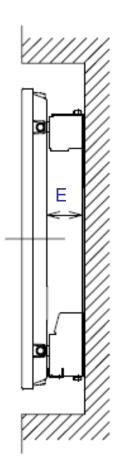
* Two stoppers are provided for the upper bracket.

Space required for wall flush mounting (landscape)

Unit: mm

А	В	С	D	Е
100	100	100	100	150



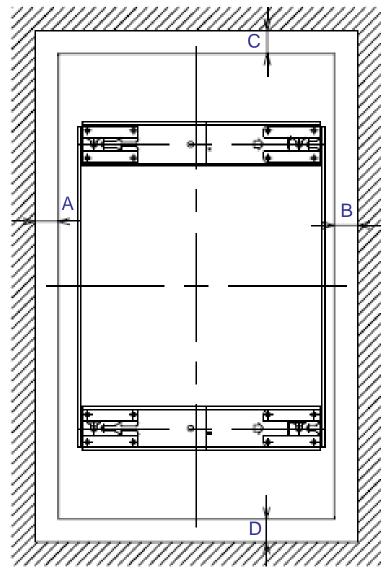


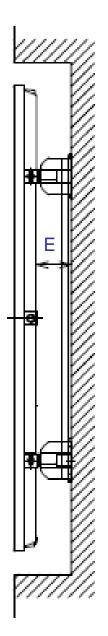
Space required for wall flush mounting

(portrait)

Unit: mm

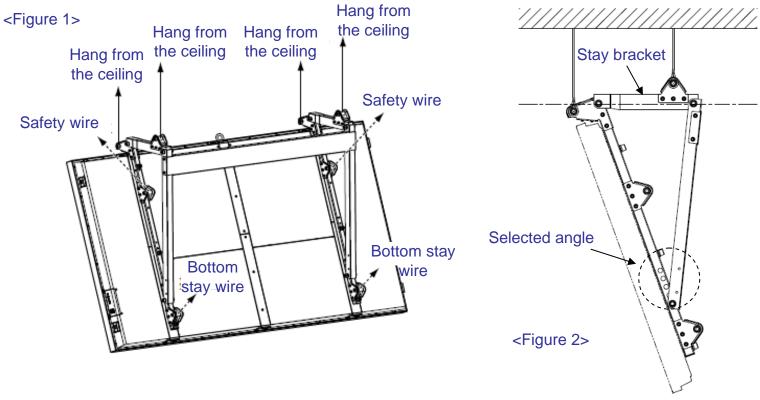
А	100		
В	100		
С	100		
D	100		
Е	150		



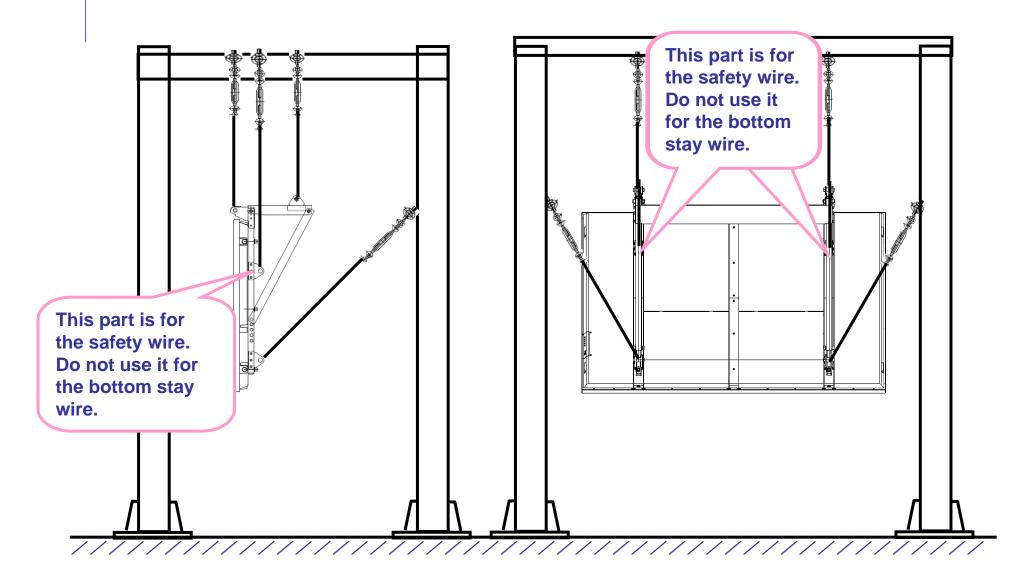


Ceiling mounting

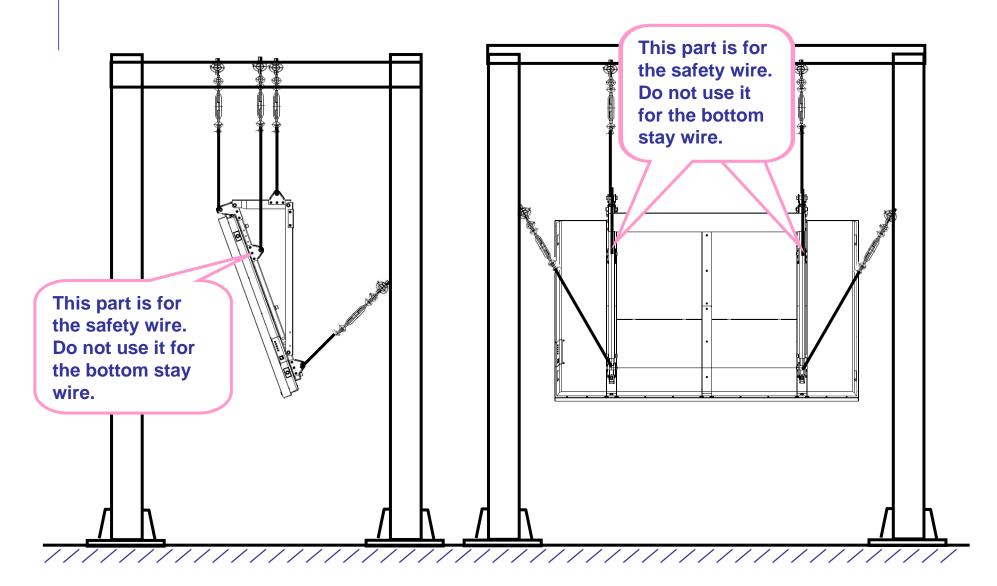
- The installation work must be carried out only by professionals. Panasonic assumes no responsibility for any problems resulting from faulty installation work.
- Hang the bracket from the ceiling with four or more wires that can withstand a heavy load. In addition, attach two or more wires to prevent the ceiling mount bracket from hitting people nearby in case that the bracket falls off.
 - Also attach bottom stay wires according to the installation conditions. (Figure 1)
- Installation angle adjustment
 After hanging the PDP, adjust the bracket position so that the top stay will be parallel to the ceiling. If the top stay is not parallel to the ceiling, the bracket angle you selected cannot be achieved. (Figure 2)



Diagrams of ceiling mounting in a vertical position



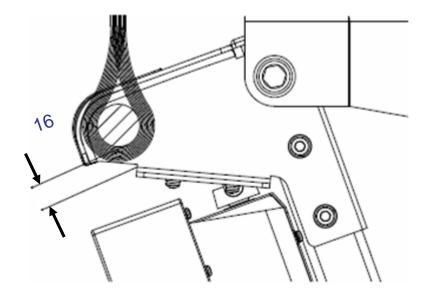
Diagrams of ceiling mounting at a selected angle



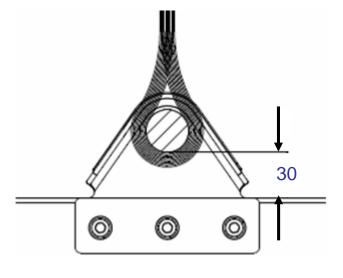
Wire attaching points

Unit: mm



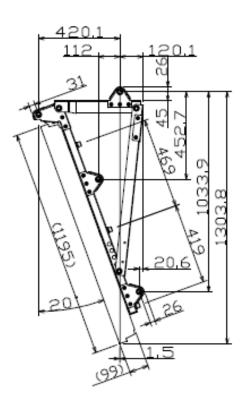


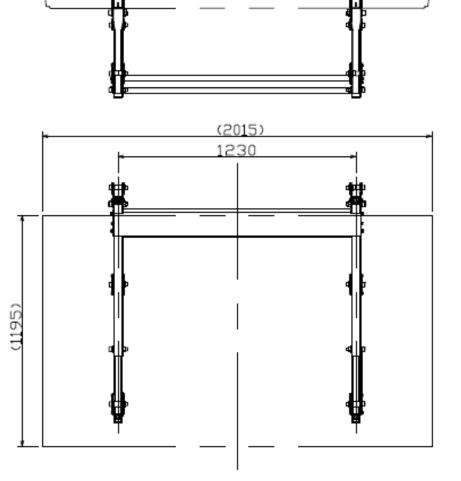
Plate



Tilt angle: 20 degrees

- Stand specifications (Model No.: TY-CE85PS12)
 - Weight: Approx. 32.0 kg

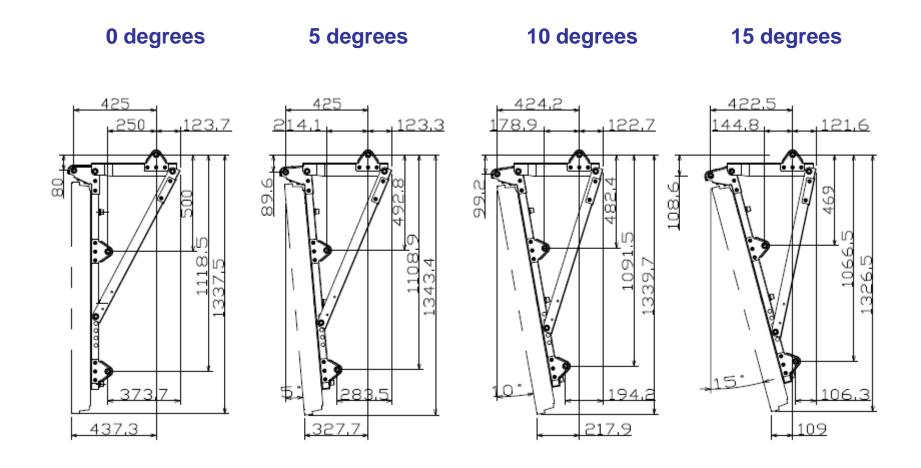




Tilt angle selection

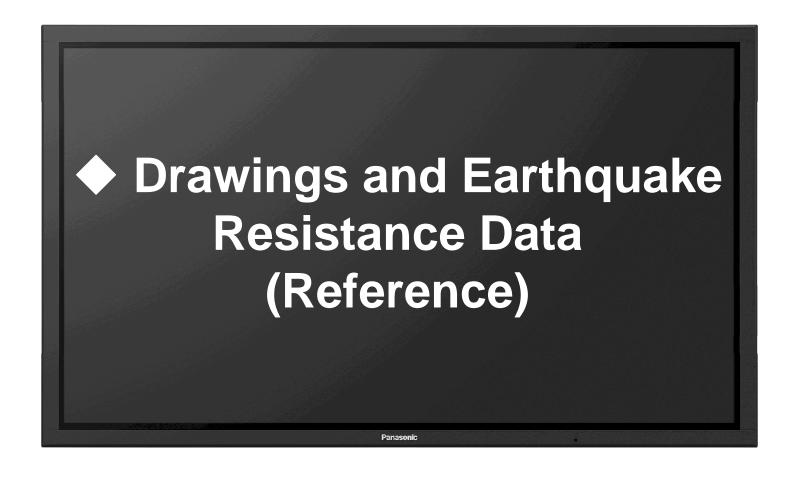
• Stand specifications (Model No.: TY-CE85PS12)

■ Weight: Approx. 32.0 kg



Notes on ceiling mounting

- If the wires used are long, recalculate the load by adding the weights of the wires.
- Check with the builder (e.g. the construction JV) as to the strength of the section where the PDP is hung (e.g. steel frames, ceiling slab) to confirm that the section has adequate strength before starting the work. If the strength is not adequate, it is fully expected that the section cannot withstand the load only with external anchors.
- Ensure that the wires have been processed with specified parts and tools and maintain the specified strength.
- The breaking strength of stainless steel wires varies depending on the manufacturer. Therefore, when using a stainless steel wire, check with the specifications of the wire to confirm that it has the required strength.

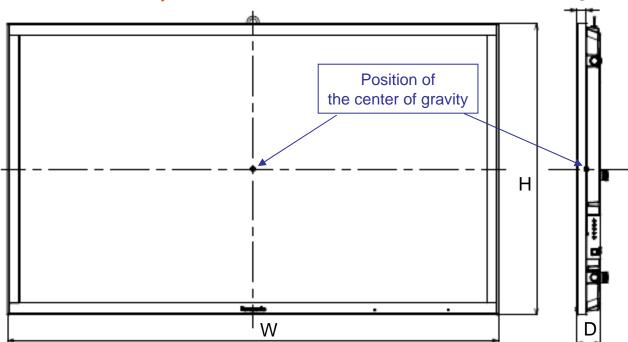


Position of the center of gravity

Position of the center of gravity

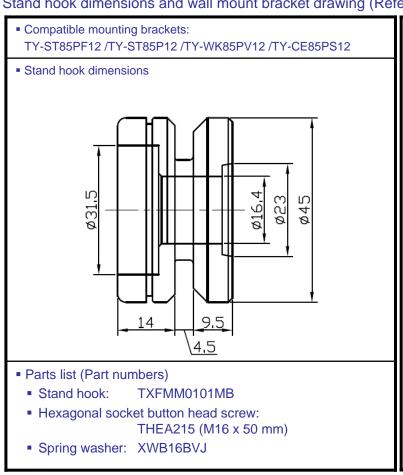
	TH-85PF12	With the wall mount bracket	With the ceiling mount bracket (Tilt: 0 degrees)
W (mm)	2,015		←
H (mm)	1,195	-	←
D (mm)	99	←	←
Weight (kg)	120	137	152
Position of the center of gravity G (mm)	33	51	45

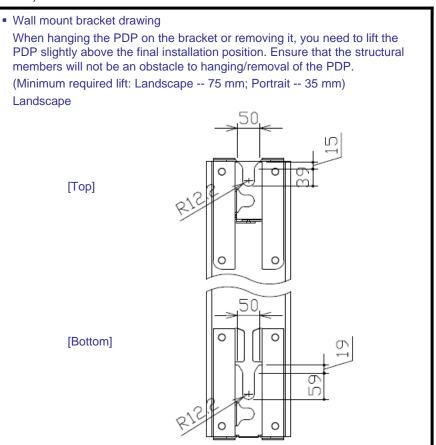
* The weights and positions of the center of gravity shown above are provisional values currently available.



Notes on PDP installation

- When attaching the PDP to the mounting bracket, be sure to use our specified stand hooks. It is not recommendable to use any bracket other than the dedicated ones. The panel or other parts of the PDP may break, leading to screen defects or increasing of the noise emission level.
- Be sure to put the brackets' stoppers in place to prevent the PDP from coming off the brackets for safety reasons.
- Notes on installation in portrait orientation Model: TH-85PF12
- Install the PDP with the power button side down.
- Set the display orientation to portrait (during the initial setup). The fan control for portrait installation will be enabled.
- Stand hook dimensions and wall mount bracket drawing (Reference)





PDP installation

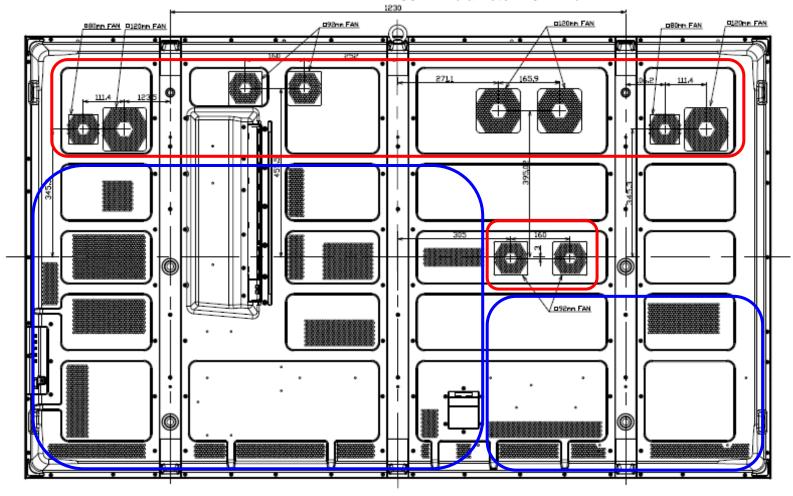
<Reference>

Layout of the heat vents and fans of the 85-inch PDP Air inlets and outlets

- TH-85PF12 fan airflow and quantity
 - 120-mm diameter: 1.8 m³/min x 4
 - 92-mm diameter: 1.0 m³/min x 4
 - 80-mm diameter: 0.7 m³/min x 2

Air outlets

Air inlets



* The heat vent area and the fan quantity and positions are subject to change.

PDP installation

